

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: March 7, 2005, 07:04:17 ; Search time 31.7679 Seconds
(without alignments)
1193.323 Million cell updates/sec

Title: US-09-939-537-29_COPY_1_394
Perfect score: 2029
Sequence: 1 MNRGVPFHRILLVQLALIP.....SGQVTLSENKVLPTWSTPV 394

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

PIR 79:
1: pir1:
2: pir2:
3: pir3:
4: pir4:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

ALIGNMENTS

RESULT 1

RHHT4

T-cell surface glycoprotein CD4 precursor [validated] - human

Nt-Alternate names: T-cell Surface antigen T4/Leu 3

C.Species: Homo sapiens (man)

C.Date: 28-May-1986 #sequence revision 31-Dec-1988 #text change 09-Jul-2004

C.Accession: A9082; A32722; A34194; A3287; I54176; I14297; A02109; A30039

R.Maddon, P.J.; Littman, D.R.; Godfrey, M.; Maddon, D.E.; Chess, L.; Axel, R.

Cell 42, 93-104, 1985

A.Title: The isolation and nucleotide sequence of a cDNA encoding the T cell surface prot

A.Reference number: A9082; MUID:85254948; PMID:2990730

A.Accession: A90872

A.Molecule type: mRNA

A.Residues: 1-25, 'N', 27-458 <MAD>

A.Experimentall source: clone pT4B

R.Littman, D.R.; Maddon, P.J.; Axel, R.

Cell 55, 541, 1988

A.Title: Corrected CD4 sequence.

A.Reference number: A90907; MUID:89028665; PMID:3263213

A.Contents: annotation; revision to residue 26

R.Camerini, D., Seed, B.

Cell 60, 741-754, 1990

A.Title: CD4 domain important for HIV-mediated syncytium formation lies outside the vi

A.Reference number: A32722; MUID:90182664; PMID:2107024

A.Accession: A32722

A.Status: nucleic acid

sequence not shown; not compared with conceptual translation

A.Molecule type: mRNA

A.Residues: 26-26, 438-458 <CAM>

R.Carr, S.A.; Folena-Wasserman, G.; Sweet, R.W.; Anumula, K.; Barz, J.R.;

J.Biol.Chem. 264, 21286-21295, 1989

A.Title: Protein and carbohydrate structural analysis of a recombinant soluble CD4 receptor

CD4 receptor - hum

A.Reference number: A34194; MUID:9007822; PMID:2992374

A.Content: disulfide bonds; carbohydrate-binding sites

A.Accession: A34194

A.Molecule type: protein

A.Residues: 26-394 <CR>

A.Residue: 26-394 <CR>

A.Molecule type: protein

A.Residues: 26-394 <CR>

hypothetical prote
hemicanthin precur
neural cell adhesi
elastic titin hu
T-cell receptor ga
connectin/ritin -
neural cell adhesi
neural cell adhesi
limbiic-system-asso
SCPI protein - rat
neural cell adhesi
tumor suppressor -
amalgam protein pr
carcinoembryonic a
hypothetical prote
neural cell adhesi

30	125	6.2	5175	2	T20992
31	125	6.2	5198	2	T43290
32	124	6.1	1115	1	IUNSNL
33	124	6.1	7962	2	I38346
34	123.5	6.1	323	2	S01895
35	123	6.1	4162	2	T42633
36	122.5	6.0	761	1	IURUNG
37	122.5	6.0	1257	1	A31060
38	121.5	6.0	338	2	JC4776
39	121	6.0	946	2	S88061
40	121	6.0	1091	1	IUCHNL
41	121	6.0	1427	2	IS1669
42	120.5	5.9	333	2	A31923
43	119.5	5.9	702	2	A36319
44	119	5.9	584	2	T08678
45	117	5.8	858	1	IURTNC

Searched:

283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters:

283416

Minimum DB seq length:

0

Maximum DB seq length:

200000000

Post-processing:

Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

PIR 79:

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R.Maddon, P.J.; Littman, D.R.; Godfrey, M.; Maddon, D.E.; Chess, L.; Axel, R.

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A.Accession: A90872

A.Molecule type: mRNA

A.Residues: 1-25, 'N', 27-458 <MAD>

A.Experimentall source: clone pT4B

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A.Accession: A34194

A.Molecule type: protein

A.Residues: 26-394 <CR>

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elastic titin hu
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limbiic-system-asso
SCPI protein - rat
neural cell adhesi
tumor suppressor -
amalgam protein pr
carcinoembryonic a
hypothetical prote
neural cell adhesi
twitchin [similar]
hypothetical prote
T-cell receptor ga
myosin-light-chain
hypothetical prote
telomerase-associa
neural cell adhesi
tumor suppressor
Down syndrome cell

hemicanthin precur
neural cell adhesi
elastic titin hu
T-cell receptor ga
connectin/ritin -
neural cell adhesi
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neural cell adhesi
tumor suppressor -
amalgam protein pr
carcinoembryonic a
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twitchin [similar]
hypothetical prote
T-cell receptor ga
myosin-light-chain
hypothetical prote
telomerase-associa
neural cell adhesi
tumor suppressor
Down syndrome cell

23	130.5	6.4	304	2	S0663
24	130	6.4	1906	1	S6835
25	128	6.3	283	2	T3416
26	127	6.3	229	2	T32735
27	125.5	6.2	175	1	IJNSNG
28	125.5	6.2	1447	2	A51176
29	125	6.2	1096	2	T08851

A;Molecule type: DNA
A;Residues: 1-72 <RES>
A;Cross-references: GB:U47924; GB:MB6525; GB:U72506; NID:91633547; PIDN:AAB51309.1; PID:
R;Hodge, T.W.; Sabso, D.R.; McDougal, J.S.
R;Human. Immunol. 30, 99-104, 1991
A;Title: Humans with OKT4 epitope deficiency have a single nucleotide base change in the
A;Reference number: 154297; MUID:91216786; PMID:1708753
A;Accession: B32722
A;Status: translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-264, 'W', 266-458 <RES>
C;Cross-references: GR:M36160; NID:9179143; PIDN:AA16069.1; PID:9179144
C;Comment: Macrophage tropic strains of HIV-1 bind to a complex of chemokine (C-C) receptor
C;Genetics:
A;Gene: GDB:CD4
A;Cross-references: GDB:119767; OMIM:186940
A;Map position: 12pter-12p12
A;Introns: 16/3
C;Superfamily: T-cell surface glycoprotein CD4; immunoglobulin homology
C;Keywords: AIDS; duplication; glycoprotein; T-cell; transmembrane protein
F;1-25/Domain: signal sequence #status predicted <SIG>
F;26-458/Product: T-cell surface glycoprotein CD4 #status experimental <MAT>
F;34-111/Domain: immunoglobulin homology <IM1>
F;136-186/Domain: immunoglobulin homology <IM2>
F;216-299/Domain: immunoglobulin homology <IM2>
F;321-372/Domain: immunoglobulin homology <IM2>
F;397-420/Domain: transmembrane #status predicted <TMM>
F;421-458/Domain: intracellular #status predicted <INT>
F;296-325/Binding site: disulfide bonds: #status experimental
F;296-325/Binding site: carbohydrate (Asn) (covalent) #status experimental
Query Match 99.3%; Score 2015; DB 1; Length 458;
Best Local Similarity 99.5%; Pred. No. 9.5e-130; Matches 392; Conservative 0; Indels 0; Gaps 0;
Matches 392; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 1 MRGVPFRHLIVLQLALIPATQGKVKVLGKGDTVELCTASOKSIQFWKNSNQIK 60
Db 1 MRGVVPRFHLLIVLQLALIPATQGKVKVLGKGDTVELCTASOKSIQFWKNSNQIK 60
Qy 61 IIGNQESPLTKPSKLANDRSRSLSLDQGNPLITNLKRDSDTIVCEYEDQKERVOL 120
Db 61 IIGNQESPLTKPSKLANDRSRSLSLDQGNPLITNLKRDSDTIVCEYEDQKERVOL 120
Qy 121 LVFGLTANSDTLHQSLQSLTILSPPGSSPSVOCSPRGKNIQGGKTLSVQLELQDSC 180
Db 121 LVFGLTANSDTLHQSLQSLTILSPPGSSPSVOCSPRGKNIQGGKTLSVQLELQDSC 180
Qy 181 TWCTVILQNKQEVFKDIVVIAFQKASSIVKKEGEQVETSFPLAPTVKLTGSCLWW 240
Db 181 TWCTVILQNKQEVFKDIVVIAFQKASSIVKKEGEQVETSFPLAPTVKLTGSCLWW 240
Qy 241 QLERASSSKSWITFDLKNEKSVKRVTDQPKLQMGKPLIHTLPOALPOAGSGNLTIA 300
Db 241 QLERASSSKSWITFDLKNEKSVKRVTDQPKLQMGKPLIHTLPOALPOAGSGNLTIA 300
Qy 301 LRAKTKGLHOEVLNUVRATOLQKNLKEAKVSKREKPVWV 360
Db 301 LRAKTKGLHOEVLNUVRATOLQKNLKEAKVSKREKPVWV 360
Qy 361 LNPEAGWQCLISDSQVLELESNIKVLPWTSPV 394
Db 361 LNPEAGWQCLISDSQVLELESNIKVLPWTSPV 394

RESULT 2
RW2724
T-cell surface glycoprotein CD4 - chimpanzee
N;Alternate names: T-cell surface antigen T4/Leu 3
C;Species: Pan troglodytes (chimpanzee)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 09-Jul-2004
C;Accession: B32722; A46534
R;Camerini, D.; Seed, B.
R;Cell 60, 747-754, 1990
Cell 60, 747-754, 1990
A;Reference number: A32722; MUID:9018264; PMID:2107024
A;Title: A CD4 domain important for HIV-mediated syncytium formation lies outside the vi
A;Reference number: A32722; MUID:9018264; PMID:2107024
A;Accession: B32722
A;Molecule type: mRNA
A;Residues: 1-432 <CMM>
A;Cross-references: UNIPROT:PI6004; GB:M31135
R;Fomsgaard, A.; Hirisch, V.M.; Johnson, P.R.
Bur. J. Immunol. 22, 297-2981, 1992
A;Title: Cloning and sequences of primate CD4 molecules: diversity of the cellular receptor
A;Reference number: A46534; MUID:93049640; PMID:1425921
A;Accession: A46534
A;Status: not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 3-399 <POM>
A;Note: sequence extracted from NCBI backbone (NCBIPR:118332)
C;Comment: This protein is expressed on most thymocytes, on a subset of mature T-cells th
C;Superfamily: T-cell surface glycoprotein CD4; immunoglobulin homology
C;Keywords: duplication; glycoprotein; T-cell; transmembrane protein
F;1-431/Product: T-cell surface glycoprotein CD4 #status predicted <MAT>
F;1-371/Domain: extracellular #status predicted <EXT>
F;9-86/Domain: immunoglobulin homology <IM1>
F;11-161/Domain: immunoglobulin homology #status atypical <IM2>
F;191-274/Domain: immunoglobulin homology <IM3>
F;296-347/Domain: immunoglobulin homology <IM4>
F;372-395/Domain: transmembrane #status predicted <TMM>
F;396-432/Domain: intracellular #status predicted <INT>
F;321-372/Domain: immunoglobulin homology <IM2>
P;16-84 120-159 30-345/Disulfide bonds: #status predicted <INT>
P;271, 300/Binding site: carbohydrate (Asn) (covalent) #status predicted
Query Match 92.0%; Score 1867; DB 1; Length 432;
Best Local Similarity 98.6%; Pred. No. 1e-119; Matches 363; Conservative 0; Indels 0; Gaps 0;
Matches 363; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
Qy 87 WDQGNPLIILKLEDSDTIVCEYEDQKERVOLVLFGLTANSDTLHQSLQSLTILSP 146
Db 62 WDQGNPLIILKLEDSDTIVCEYEDQKERVOLVLFGLTANSDTLHQSLQSLTILSP 121
Qy 147 PGSSPSVQCSPRGKNIQGGKTLSVQLELQDSC 206
Db 122 POSSPSVQCSPRGKNIQGGKTLSVQLELQDSC 181
Qy 207 ASSIVRKKEGEQVETSFPLAPTVKLTGSCLWWQAKERASSKSMITDEIJKNEKSVKRV 266
Db 182 ASSIVRKKEGEQVETSFPLAPTVKLTGSCLWWQAKERASSKSMITDEIJKNEKSVKRV 241
Qy 267 TDPKLQMGKKPLIHTLPOALPOAGSGNLTIALEAKTKGLHOEVLNUVRATOLQKL 326
Db 242 TDPKLQMGKKPLIHTLPOALPOAGSGNLTIALEAKTKGLHOEVLNUVRATOLQKL 301
Qy 327 TCEVMGPTSPKLMISLKENKEAKVSKREKPVWVNPAGMWQCLISDSQVLELESNIKV 386
Db 302 TCEVMGPTSPKLMISLKENKEAKVSKREKPVWVNPAGMWQCLISDSQVLELESNIKV 361
Qy 387 LPTWSFPV 394
Db 362 LPTWSFPV 369

RESULT 3
RW2724
T-cell surface glycoprotein CD4 - rhesus macaque
N;Alternate names: T-cell surface antigen T4/Leu 3
C;Species: Macaca mulatta (rhesus macaque)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Jul-1999
C;Accession: C32722
R;Camerini, D.; Seed, B.
Cell 60, 747-754, 1990
A;Title: A CD4 domain important for HIV-mediated syncytium formation lies outside the vi
A;Reference number: A32722; MUID:9018264; PMID:2107024

A;Accession: C32722
A;Molecule type: mRNA
A;Residues: 1-432 <CIM>
A;Cross-references: GB:M31134
C;Comment: This protein is expressed on most thymocytes, on a subset of mature T-cells and T-cell surface glycoprotein CD4 #status predicted <MAT>
C;Superfamily: T-cell surface glycoprotein CD4 #status predicted <MAT>
C;Keywords: duplication, glycoprotein, T-cell; transmembrane #status predicted <EXT>
F;1-432/Product: T-cell surface glycoprotein CD4 #status predicted <MAT>
F;1-371/Domain: immunoglobulin homology <IM1>
F;9-86/Domain: immunoglobulin homology <IM2>
F;111-161/Domain: immunoglobulin homology <IM3>
F;180-293/Domain: immunoglobulin homology <IM4>
F;294-347/Domain: immunoglobulin homology <IM4>
F;372-395/Domain: transmembrane #status predicted <TM>
F;390-432/Domain: intracellular #status predicted <INT>
F;16-84,130-159,303-345/Disulfide bonds: #status predicted <INT>
F;271,300/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 85.2%; Score 1729; DB 1; Length 432;
Best Local Similarity 90.8%; Pred. No. 2.6e-10; Matches 334; Conservative 16; Mismatches 18; Indels 0; Gaps 0;

Qy 27 KVLGKKGDTVELTCAASKKSIQFHWNNSNQIKILGNQGSFLTKPSKLNDRSSL 86
Db 2 KVVLGKKGDTVELTCAASKKSIQFHWNNSNQIKILGNQGSFLTKPSKLNDRSSL 121
Db 62 WDGCFSMWIRNKIEDSDTYICEVENKEEVEELVFGLTANSDTLLEGOSLITLESP 121
Qy 147 PSSSPVQCRERGKQIQQGKTLVSQLELODQGTWCTVQONQKVERPKIDIVLAFOK 206
Db 122 PSSSPVQCRERGKQIQQGKTLVSQLELODQGTWCTVQONQKVERPKIDIVLAFOK 181
Qy 207 ASIVIVKKEGQVEFSPPLATEVKUJGSGEJMWQABRASSSKSWITFDLKGKESVKV 266
Db 182 ASTVVKKEGQVEFSPPLATEVKUJGSGEJMWQABRASSSKSWITFDLKGKESVKV 241
Qy 267 TDQPKLQMGKKLPLHLPQAMPOYAGSGNLTALEAKTGKLUHQETNLVVRATOLQNL 326
Db 242 TDQPKLQMGKKLPLHLPQAMPOYAGSGNLTALEAKTGKLUHQEVNLVVRATOFQNL 301
Qy 327 TCEWKGPTSPKMLSLKLENKEAKVSKREKPVWLNPEAGMMQCLISDSGQVLLSNIKV 386
Db 302 TCEWKGPTSPKLTLSLKLLENKGATVSKQAKAVWLNPEAGMMQCLISDSGQVLLSNIKV 361
Qy 387 LFTWSTPV 324
Db 362 VFTWPTPV 369

RESULT 4

A46254
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 21-Sep-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C;Accession: A46254
A;Status: preliminary
A;Molecule type: mRNA
A;Reference number: S30193; MUID:9319234; PMID:7916632
A;Accession: S30193
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-432 <ML>
A;Cross-references: EMBL:X68565; NID:g288652; PIDN:CA376641; PID:94467377
C;Superfamily: T-cell surface glycoprotein CD4; immunoglobulin homology <IM>
C;Keywords: glycoprotein
F;1-311/Domain: immunoglobulin homology <IM>

Query Match 54.2%; Score 1099; DB 2; Length 432;
Best Local Similarity 57.7%; Pred. No. 2e-67; Matches 226; Conservative 57; Mismatches 62; Indels 18; Gaps 6;

Qy 1 12 LTVQQLLIPAPATQGNKWLKGDKPFLTCAASKKSIQFHWNNSNQIKILGNQGSFLTK 71
Db 1 LMLQLQVMLPAVTVPVREVLGKAGDAVLPQTSQKNNHWRDSSMVQILGNQGSFWTV 60
Qy 72 GPSKLNDRSSLWDQGMPPLIKNKIEDSDTYICEVENKEEVEELVFGLT----- 127
Db 61 GSSRLKGRVSKKNWDQGSRPLVTDYADGTYFCRTDFKQEVNLVFNKWD 119
Qy 128 -----NSDTLHQGSLLTLESPPGSSPSVQCRERGKQIQQGKTLVSQLELODQGTW 182
Db 120 GSSGGSSNRLQGQQLTILENPQGSSPSVQWKGPKGNKKGHGGLNLSPWELDQGTW 179
Qy 183 TCTVLQONQKVERPKIDIVLAFOKASSIVTCKKEGQVEFSPPLATEVKUJGSGEJMWQABRASSSKSWITFDLKGKESVKV 242
Db 180 TCISOSQKTVFBNVILVAFOKVSNTFYAREGQDFEVSPPLSFEDENLV-GELRWQA 237
Qy 243 ERASSSKSWITFDLKGKESVKVQDQPKLQMGKKLPLHLPQAMPOYAGSGNLTALE 302
Db 238 QGASSLWMSFTLERNKLSKKEAHAPLKQMKESLPLRTPQVMSRVAWSGQIHLNL- 296

Query Match 56.5%; Score 1146; DB 2; Length 459;
Best Local Similarity 59.9%; Pred. No. 1.4e-70; Matches 236; Conservative 64; Mismatches 84; Indels 10; Gaps 5;

Qy 1 MARGVPRHLLIVLQALLPATQGKVKVLGKGDPTVELTCTASOKSIOFHWNNSNQIK 60
Db 1 MORRYFOCULVPLALPATWKGKAGAVALCQSQDRNSYFNKHANVK 60
Qy 61 ILGNQO---SFLTKPSKLNDRSSLWDQGMPPLIKNKIEDSDTYICEVEDQE 116
Db 61 ILGNQOSSSSFWLKGNSPLSNRVEVKNNWDQGSPFLVYKDLRMDGTYICEVGDKM 120
Qy 117 EVQLVRLGTLANSDTLHQGSLLTLESPPGSSPSVQCRERGKQIQQGKTLVSQEL 176
Db 121 EVELYFLRLTANPNTLHQGSLLTLESPPGSSPSVQCRERGKQIQQGKTLVSQEL 180
Db 236 GELWWKAERASSSKWNTDJKNEKVSKVKTQDPLKQMKRKLPHHTLQALPOVAGSG 295
Qy 177 QDSGTWTCCTV_LQNQKVERPKIDIVLAFOKASSIVTCKKEGQVEFSPPLATEVKUJGSGEJMWQABRASSSKSWITFDLKGKESVKV 235
Db 181 QDSGTWCHLSFQDQNLKELDIDKIVLGPFKASARTVYKGEQVEFSFPINFDSL-S 238
Qy 296 NULALEAKTGKLUHQEVNLVVRATOLQOLQKLTCEWGPISPPTKMSLKLNEKEAVSKRE 355
Db 299 NLSTLD--KCLHQVSVLSLVMKLYVQVQKLNKLTCEVTPKDPKMKUSLKLKDQEAWS-TQ 355
Qy 356 KPVWVJLAPAGMMQCLISDSQVLLSNIKVLP 389
Db 356 KMQVQVDPKACTWQCLISDSQVLLSNIKVLP 389

QY	303 AKYGGKTHOENVLVUMRATOLQONITCEWGTSPKTMISKLLENTRAKVSKRKPWVNTN 362
Db	297 AK-GTLYQEVNLVUMRANSONNLTCEVLGPTSPKTLISNLKBOAQKVSKQQLVWVTD 355
QY	363 PEAGMMQCLSDSGQVLESNIKLPTWSTPV 394
Db	356 PEGGTWQCLSLDKOKVLLASSLN---SSPV 383
RESULT 6	
A27449	T-cell surface glycoprotein CD4 precursor - rat
C;Species: Rattus norvegicus (Norway rat)	
C;Alternate names: W3/25 antigen	
C;Date: 21-May-1988 #sequence_revision 21-May-1988 #text_change 09-Jul-2004	
C;Accession: A27449; A35433	
R;Clark, S.J.; Jefferies, W.A.; Barclay, A.N.; Gagnon, J.; Williams, A.F.	
Proc. Natl. Acad. Sci. U.S.A. 84, 1649-1653, 1987	
A;Title: Peptide and nucleotide sequences of rat CD4 (W3/25) antigen: evidence for derivative number: A27449; MUID:87175535; PMID:3104900	
A;Accession: A27449	
A;Molecule type: mRNA	
A;Residues: 1-457 <CLA>	
A;Cross-references: UNIPROT:P05540; GB:W15768; NID:9203387; PIDN:AAA40901.1; PID:9203388	
R;Davis, S.J.; Ward, H.A.; Puklavec, M.J.; Willis, A.C.; Williams, A.F.; Barclay, A.N.	
J. Biol. Chem. 265, 1010-10418, 1990	
A;Title: High level expression in Chinese hamster ovary cells of soluble forms of CD4 T	
A;Reference number: A54533; MUID:90285164; PMID:2113054	
A;Contents: annotation	
C;Superfamily: T-cell surface glycoprotein CD4; immunoglobulin homology F,219-300/Domain: immunoglobulin homology <IMM>	
Query Match Best Local Similarity 49.2%; Score 999; DB 2; Length 457; Matches 207; Conservative 52.9%; Pred. No. 1.4e-60; Indels 8; Gaps 5;	
Qy 1 MRARQPFRLI--LIVQALLPATQGNKTVLGKGDWTETCASAQSOKSIQPHWKNSQ 58	
Db 1 MCRGSFRHILPLILQSKLUVYTGKTVLKGEGGSABLPBCSTSRRSASPAWKSSDQ 60	
Qy 59 IKTLGNGQSGFLTKPESKLNDRSRSLADQGNPGLIPLIKNLKEEDSDTYICEVEDQKEV 118	
Db 61 KTLIGYKRNLLIKQSKLEYSRFSRKNAMEGRGSPFLINKLMEQDQTVCBLENKVE 120	
Qy 119 QLVFGFLGTANSDDTHLQGOSLTLTES--PPGSSPSVQCRSPRGKNIQGAKTLSVQLEHQ 177	
Db 121 ELWVFRVTNPQGPTRLQGOSLTLIDSNNPKVSDPPIECKKSSNIVKOSKAFTSHLRQ 180	
Qy 178 DSGTWCTILQONQKRFKEFKDIVLAQFQASITVKKEHQVRSPIAFTEVKLGSE 237	
Db 181 DSGIWNCTVTLNOKHSEFDMLKSLVGFASLBBEL---QCE 238	
Qy 238 LWQOQERASSSKSMITFDJNKNEVSVKRTQDPKQMGKKPLHILTPQALPOQAGSGNL 297	
Db 239 LRMWKEAKASSQSNITFSLQKQSVKSNTSPNPEQFQESTPILQIPOVLSQAGSGNL 298	
Qy 298 TLALEAKTKGHQENVLVUMRATOLQKN-LTCBVGPTSPKLMISKLLENTRAKVSKRKP 356	
Db 299 TLTLID---RGILYQEVNLVUMRVTODSNTLCTCEVGMGPTSPKMRLLIKOENOEARWSRQE 356	
Qy 357 PWVMDNPEAGMMQCLSDSGQVLESNIKL 387	
Db 357 VIQVOAPEAGWQCLISEGEBEVKMSKIQV 387	
RESULT 7	
R;Tourville, B.; Gorman, S.D.; Field, E.H.; Hunkapiller, T.; Barnes, J.R.	
Science 233, 610-614, 1986	
A;Title: Isolation and sequence of L3T4 complementary DNA clones: expression in T cells	
A;Reference number: A02110; MUID:87018845; PMID:3094146	
A;Accession: A02110	
A;Molecule type: mRNA	
A;Residues: 1-457 <TOU>	
A;Cross-references: UNIPROT:P06332; GB:W13816; NID:9192070; PIDN:AAA37267.1; PID:9309112	
R;Littman, D.R.; Gettner, S.N.	
Nature 325, 453-455, 1987	
A;Title: Unusual intron in the immunoglobulin domain of the newly isolated murine CD4	
A;Reference number: A26038; MUID:87115821; PMID:3027575	
A;Accession: A26038	
A;Molecule type: mRNA	
A;Residues: 1-457 <LT>	
A;Cross-references: GB:X048336; NID:950353; PIDN:CAA28539.1; PID:950354	
R;Gorman, S.D.; Tourville, B.; Barnes, J.R.	
Proc. Natl. Acad. Sci. U.S.A. 84, 7644-7648, 1987	
A;Title: Structure of the mouse gene encoding CD4 and an unusual transcript in brain.	
A;Reference number: A39893; MUID:88041159; PMID:283269	
A;Accession: A39893	
A;Molecule type: DNA	
A;Residues: 1-25, 'B', 27-457 <GOR>	
A;Cross-references: GB:W10780; GB:J03003; NID:9192515; PIDN:AAA37402.1; PID:9387124	
R;Maddon, P.J.; Molineaux, S.M.; Maddon, D.E.; Zimmerman, K.A.; Godfrey, M.; Alt, F.W.	
Proc. Natl. Acad. Sci. U.S.A. 84, 955-959, 1987	
A;Title: Structure and expression of the human and mouse T4 genes.	
A;Reference number: A39955; MUID:88097446; PMID:3501122	
A;Accession: A39955	
A;Status: nucleic acid sequence not shown; not compared with conceptual translation	
A;Molecule type: mRNA	
A;Residues: 25-457 <MDA>	
A;Note: the cited Genbank accession number, J03564, is not in release 101.0	
R;Parnes, J.R.; Runkapiller, T.	
Immuno. Rev. 100, 109-127, 1987	
A;Title: L3T4 and the immunoglobulin gene superfamily: New relationships between the immunoglobulin genes and the T4 genes.	
A;Reference number: I54564; MUID:88152875; PMID:332818	
A;Accession: I54564	
A;Note: the cited Genbank accession number, J03564, is not in release 101.0	
A;Status: translated from GB/EMBL/DDBJ	
A;Molecule type: mRNA	
A;Cross-references: <RES>	
A;Accession: 169018	
A;Status: translated from GB/EMBL/DDBJ	
A;Molecule type: DNA	
A;Residues: 208-318 <RB2>	
A;Cross-references: GB:M36851; NID:9198672; PIDN:AAA39402.1; PID:9554183	
R;Classon, B.J.; Tsagaratos, J.; Kirszbaum, L.; Maddox, J.; Mackay, C.R.; Brandon, M.; M	
Immunogenetics 23, 129-132, 1986	
A;Title: The L3T4 antigen in mouse and the sheep equivalent are immunoglobulin-like.	
A;Reference number: A47642; MUID:86166694; PMID:3082751	
A;Molecule type: protein	
A;Accession: A47642	
C;Comment: This protein is expressed on most thymocytes, on a subset of mature T-cells that express alternative names: T-cell differentiation antigen L3T4; T-cell surface antigen T4/Ieu 3	
C;Species: Mus musculus (house mouse)	
C;Date: 30-Jun-1987 #sequence_revision 30-Jun-1987 #text_change 09-Jul-2004	
C;Accession: A02110; A26038; A39893; A39955; I54564; I69108; A47642	
Query Match Best Local Similarity 48.9%; Score 993; DB 1; Length 457; Pred. No. 3.5e-60;	

Matches 211; Conservative 62; Mismatches 109; Indels 10; Gaps 7;

Qy 1 MRGVPVERH-LIVTQLLIPATQOKWVKGKGDPTVLTCTASOKSIOFWKNSNQI 59
Db 1 MCRAISLRLILLILQLQLQLQVLTQGKTLVKEGESABPRESQQKRTVFTWKESDQR 60

Qy 60 KILGNQG-SFLTKG--PSKLNRADRSRSLWDQGNFPLIKLKIEDSDTYCEVEDQE 116
Db 61 KLGQHQKGKVLRGGSP-QDRFSKQGKGSFPLINLKMDQTYCILENR 119

C;Superfamily: T-cell surface glycoprotein CD4; Immunoglobulin homology
C;Keywords: glycoprotein; T-cell

Qy 117 EQLVYGLGTANSDTHLQGQSILTLES-PPGSSPSVQCRSPRGKNIQOGGTLSVSOLE 175
Db 120 EVELWTFKVTFSPGTSILQGQSLTLDNSNSKVSNPLTECKKKGVSGSKVLSMSNLR 179

P;3-81;Domain: immunoglobulin homology <IMM>

Query Match 15.1%; Score 305.5; DB 2; Length 99;
Best Local Similarity 60.2%; Pred. No. 3.2e-14; Mismatches 22; Indels 1; Gap 1;

Matches 59; Conservative 16; Mismatches 22; Indels 1; Gap 1;

Qy 176 LQSGTWTCTVUNQOKWEPKDIWLAFOKASSIVVKKEGSQEVRSPPLATFVKLTGS 235
Db 180 VQDSDFWNCTVTDOKKNGFGMTSLVQGPQSTAITAYKSEGEAESAFFPMLAAE--NGW 237

Qy 236 GEIWWQARASSKSMTPDLMKENVKRVITQDPKLUQMGRKULHTPQALPQAGS 295
Db 238 GELMWKAKDSFQPWISFSITKENVSVOKSTKDQKOLKETPLTUKIPQVSLQAGS 297

Qy 296 NTITLALEAKTGKLUHQEVNLVVMRATOLOKNUTCEVMGAPTPSKMLSIKLENREKYSKRE 355
Db 298 NITLTD--KGTHOBENLWVVKVAQANNTCEVMGAPTPSKMLSIKLENREKYSKRE 355

Qy 356 KXWVWLPPEAGMWMQCLSDSGCVLESNIKV 387
Db 356 KVNVVWAPETGWIQCLUSEGDKVMDSRIOV 387

RESULT 8

160022 CD4 receptor - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 29-May-1998 #sequence_revision 29-May-1998 #text_change 09-Jul-2004
C;Accession: I60022
C;Cross-references: UNIPROT:Q13969; GB:S79267; NID:91086922; PIDN:AAB35273.1; PID:910869
C;Title: [Nucleotide sequence of two exons of the human T-lymphocyte CD4 receptor gene].
A;Reference number: 160082; MUID:95407135; PMID:7676667
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-71 <HES>
A;Cross-references: UNIPROT:Q13969; GB:S79267; NID:91086922; PIDN:AAB35273.1; PID:910869
A;Cross-references: UNIPROT:Q13969; GB:S79267; NID:91086922; PIDN:AAB35273.1; PID:910869
C;Genetics:
A;Interspecies: 17/1
C;Superfamily: T-cell surface glycoprotein CD4; immunoglobulin homology

Query Match 17.6%; Score 357; DB 2; Length 71;
Best Local Similarity 98.6%; Pred. No. 6.5e-18; Matches 70; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MNRGVPFRHLIYVQLALLPATQOKWVKGKGDPTVLTCTASOKSIOFWKNSNQI 60
Db 1 MNRGVPFRHLIYVQLALLPATQOKWVKGKGDPTVLTCTASOKSIOFWKNSNQI 60

RESULT 9

S21461 T-cell surface glycoprotein CD4 (allele 1) - pig (fragment)
C;Species: Sus scrofa domestica (domestic pig)
C;Date: 20-Feb-1995 #sequence_revision 19-Apr-1996 #text_change 09-Jul-2004
C;Accession: I47131; S21461
R;Guðafasson, K.; Germana, S.; Sundt, T.M.
J. Immunol. 151: 165-170, 1993
A;Title: Extensive allelic polymorphism in the CDR2-like region of the miniature swine CD4 molecule.
A;Cross-references: UNIPROT:Q29028; EMBL:X665630; NID:91929; PIDN:CAA46584.1; PID:9388233
A;Accession: I47132
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-99 <HES>
A;Cross-references: UNIPROT:Q29028; EMBL:X665630; NID:91929; PIDN:CAA46584.1; PID:9388233
C;Superfamily: T-cell surface glycoprotein CD4; immunoglobulin homology
C;Keywords: glycoprotein; T-cell
P;3-81;Domain: immunoglobulin homology <IMM>

Query Match 13.8%; Score 280.5; DB 2; Length 99;
Best Local Similarity 56.1%; Pred. No. 1.6e-12; Matches 55; Conservative 19; Mismatches 23; Indels 1; Gaps 1;

Qy 32 KKGDTWLTCTASOKSIOFWKNSNQIYLGNQGSPLTKGP-SKLNDRADRSRSLWDQ 90
Db 1 KKGDTWLTCTASOKSIOFWKNSNQIYLGNQGSPLTKGP-SKLNDRADRSRSLWDQ 90

Qy 91 NPFLIKNKIEDSDTYCEVEDQEKEVQVLFGLTAN 128
Db 61 SFPLIKNKLEVTDGIVICEVEVDKIEVQVLFRTAS 98

RESULT 11

JS0675 vascular cell adhesion molecule-1 precursor - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: 30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change 09-Jul-2004
C;Accession: JS0675; S19872; S23136
R;Hession, C.; Moy, P.; Tizard, R.; Chisholm, P.; Williams, C.; Wysk, M.; Burkly, L.; Miyazaki, J.; Biochem. Biophys. Res. Commun. 183, 163-169, 1992
A;Title: Cloning of murine and rat vascular cell adhesion molecule-1.
A;Reference number: JS0674; MUID:92181437; PMID:1371918
A;Accession: JS0675
A;Status: nucleic acid sequence not shown
A;Molecule type: mRNA
A;Residues: 1-139 <HES>
A;Cross-references: UNIPROT:P29534; GB:N84488; NID:9207642; PIDN:AAA42332.1; PID:9207643
R;Williams, A.; Atkins, R.; Fries, J.; Gimbrone, M.A.; Cybulsky, M.I.; Collins, T.
Submitted to the EMBL Data Library, February 1992
A;Description: Nucleotide sequence of rat vascular cell adhesion molecule-1.
A;Reference number: S19872

A;Molecule type: mRNA
 A;Residues: 1-2, 'G', 4-121, 'H', 124-165, 'N', 167-738, 'G' <WIL>
 A;Cross-references: EMBL:U63722; NID:957471; PID:NCBA45254.1; PID:957472
 R;Williams, A.J.; Atkins, C.M.; Fries, J.W.U.; Gimboree Jr., M.A.; Cybulska, M.I.; Collie,
 Biochim. Biophys. Acta 1131, 214-216, 1992.
 A;Title: Nucleotide sequence of rat vascular cell adhesion molecule-1 cDNA.
 A;Accession: S23135; MUID:92305064; PMID:1377031
 A;Status: preliminary
 A;Molecule type: mRNA
 A;Comment: This protein interacts with the beta-1 integrin very late antigen 4 on leukoc
 C;Genetics:
 A;Gene: VCAM-1
 A;Keywords: cell adhesion; transmembrane protein
 F;I-24/Domain: Signal sequence #status predicted <SIG>
 F;25-739/Domain: vascular cell adhesion molecule 1 #status predicted <VAS>
 F;239-739/Domain: immunoglobulin homology <IM1>
 F;328-385/Domain: immunoglobulin homology <IM2>
 F;526-581/Domain: immunoglobulin homology <IM3>
 F;676-698/Domain: transmembrane #status predicted <TRA>
 F;697-715/Domain: intracellular #status predicted <INT>
 Query Match 8 0%; Score 162, DB 2, Length 739;
 Best Local Similarity 22.0%; Pred. No. 0.0024;
 Matches 86; Conservative 60; Mismatches 155; Indels 90; Gaps 14;
 QY 33 KGDDTBLCTASQKSIQPHKNSNOKILGNQGSFLTKGPSSKMLRADRSRRSLWDQGNF 92
 Db 238 EGAAANTMTCASEGGLAPRITWSKK-----LDNGVQLQI-----SGNA 274
 QY 93 PLIINNLKIRDSDTIVC---VEDQKEEVQLLV-----FGLTANSDTHLIQGOSQILT 142
 Db 275 TLTLLAARMEDSGLIVCEGVLVLGDKTEVELIVQEKPFVTDISPGSOVAQVGDSVLT 334
 QY 143 LESPRGGSSPESVOCRSSPRPGKIQG-----GKTLLVSQLEQDSEGWTCVTLONGKVEF 195
 Db 335 CAAVGCDSPSPFWRQTDSPLNGEVDRDEGATSTLTALSPVGVEDEBHSYLCTVTCQRKLER 394
 QY 196 KIDIVVLAQOKASSIVVKKGEGQVTFSPFLA-----PTVKEKLTGSG 236
 Db 395 TIQEWYTF-----PDEPNTISGPVAVHGRPVTVNCPTVNPNTYPPFDHLIEKLGET 445
 QY 237 ELWWQAEGRAS-SSSKWITFDLKKNEKVSVKRVTQDPDKLQMGKEL---PLHUTLPALP-Q 290
 Db 446 TLINKFLERIGTKS--LETIKSLSMTFITAED---TSGKALVSLAKLHSQSMBEPKQ 498
 QY 291 YAGSGNLTIALEAKTGKHLHOBVNLYNTRATOLQKULITPKLTCYEWGPTSPKLMISLKUNKEAK 350
 Db 499 RQSTOTLYWVWAKPKEPTIWVSPSPWPEEGSPV-NLTCCSDGFPFPKILWSRQLANGELQ 556
 QY 351 VSKRKRPKVWLNPEAGMWQCLSLSGQVIL 381
 Db 557 PLSQ-----NTTISFMATQMEDDGIYVC 580

RESULT 12

JC2457

vascular cell adhesion protein - pig

C;Species: sus scrofa domesticus (domestic pig)

C;Accession: JC2457

R;Tsang, Y.T.M.; Haskard, D.O.; Robinson, M.K.

Biochem. Biophys. Res. Commun. 201, 805-812, 1994

A;Title: Cloning and expression kinetics of porcine vascular cell adhesion molecule.

A;Reference number: JC2457; MUID:94271336; PMID:1516159

A;Accession: JC2457

A;Molecule type: mRNA

A;Residues: 1-538 <TS>

A;Cross-references: UNIPROT:Q28939; EMBL:U08351; NID:9474382; PID:AAA21542.1; PID:94743

F;497-517/Domain: transmembrane #status predicted <TM>

RESULT 12
JC2457

A;Molecule type: mRNA
A;Residues: 21-401, T, 403-686 <CY2>
R;Iademarco, M. P.; McQuillin, J. J.; Roben, G. D.; Dean, D. C.
J. Biol. Chem. 267, 16323-16329, 1992
A;Title: Characterization of the promoter for vascular cell adhesion molecule-1 (VCAM-1)
A;Reference number: A43352; MUID:9235594; PMID:3379595
A;Accession: A43352
A;Residue: 1-21 <TD>
A;Cross-references: GB:M92431; NID:9340197
A;Note: sequence extracted from NCBI backbone (NCBIN:110680, NCBTP:110681)
R;Osborn, L.; Vassallo, C.; Benjamin, C.D.
C;Comment: This adhesion molecule is induced on endothelial cells by inflammatory cytokines
A;Genes: GDB:VCAM1
A;Cross-references: GDB:127922; OMIM:192225
A;Keywords: alternative splicing; cell adhesion; glycoprotein; transmembrane protein
P:1-24/Domain: signal sequence #status predicted <SIG>
P:21-739/Product: vascular cell adhesion molecule 1, long splice form #status predicted
P:659-720/Domain: transmembrane #status predicted <TM>
F:721-739/Domain: intracellular #status predicted <INT>
F:373, 365-417, 463, 531, 561/Binding site: carbohydrate (Asn) (covalent) #status predicted
Query Match 7.6%; Score 155; DB 2; Length 739;
Best Local Similarity 21.9%; Pred. No. 0.0073; Mismatches 166; Indels 88; Gaps 18;
Matches 91; Conservative 71; MisMatches 166; Indels 88; Gaps 18;
Ov 8 RHLILVQLQALPAAT--QGIRKVVLKGKGTWELTCTASOKKSIQPHWKNSQIKLGNQ 65
Db 211 RQAVKELQVYISPKNTIVSNPSTKUQBGGSVMTCSSEGFLPAPFW----- 258
Query Match 7.1%; Score 144; DB 2; Length 739;
Best Local Similarity 20.2%; Pred. No. 0.041; Mismatches 147; Indels 100; Gaps 15;
Matches 79; Conservative 65; MisMatches 147; Indels 100; Gaps 15;
Ov 122 V---PGLTANSDDTHLQ-GQSLTTLESPQPGSSPVQCRSPRGKNIQG----GKT 168
Db 308 VQEKPFTVEISFGPPRQAQIGDSVMTCSVNGCESFSFSWTQIDPLSGKRSECTNST 367
Ov 169 LSVSOLBLQDGGTTWTCVTLONGKKVFKPDKITVLAQOKASSIVVK---KEGBVERS-- 222
Db 368 LTLSPLSPFENEHESYLCHVTGHHKKLKGQIYEVLYSPFPRDPPELEMMSGGLVNGSSVTUSCKV 427
Query Match 7.1%; Score 144; DB 2; Length 739;
Best Local Similarity 20.2%; Pred. No. 0.041; Mismatches 147; Indels 100; Gaps 15;
Matches 79; Conservative 65; MisMatches 147; Indels 100; Gaps 15;
Ov 32 KKGDPTWLTCTASOKKSIQPHW-KNSNQT-KILGNQGSLTUKGPSKLNDRADRSRLWD 88
Db 237 QEGGAVTMTCSSEGFLPAPFWGRKLDNLNEVQLL----- 270
Ov 89 QGNFPLITPKTKIIEKSDTYICE---VEDQKEBVQVLV-----EGLTANSDDTHLQGS 138
Db 271 SGANATLTIAMRMEDSGVYVVEGVNLIGRKAEVELVVOERKPIVDISPGSQAAQVGS 330
Query Match 7.1%; Score 144; DB 2; Length 739;
Best Local Similarity 20.2%; Pred. No. 0.041; Mismatches 147; Indels 100; Gaps 15;
Matches 79; Conservative 65; MisMatches 147; Indels 100; Gaps 15;
Ov 139 LTLTSLSPGSSPSVQCRSPRGKNIQG-----GKTLVSQLEQLDGWTWCTVLNQK 191
Db 331 VVLTCAIGCDPSPSWRTRQTDSPLAGVVRNEGAKSTLVSSVGVRDEHSICAVTCQ 390
Query Match 7.1%; Score 144; DB 2; Length 739;
Best Local Similarity 20.2%; Pred. No. 0.041; Mismatches 147; Indels 100; Gaps 15;
Matches 79; Conservative 65; MisMatches 147; Indels 100; Gaps 15;
Ov 192 KVEPKDIVVLAQOKASSIVKKEGEQEVFSPLA----- 232
Db 391 TLEKRTQVEVSF-----PEPDVTKNGPLVHGRPVTVNCTVPNVVFPDHIELL 441
Query Match 7.1%; Score 144; DB 2; Length 739;
Best Local Similarity 20.2%; Pred. No. 0.041; Mismatches 147; Indels 100; Gaps 15;
Matches 79; Conservative 65; MisMatches 147; Indels 100; Gaps 15;
Ov 233 TCGSGLWWQAERRASSKSWI-TFDLKNEKEYSVKRVTFQDPLKQ-MGSKKL---PLHILPQ 286
Db 442 KG-----ETTLMKKYFLEMGIKSLKETKLETFPIPTIEDTGSKLVLARLHGEWE 493
Query Match 7.1%; Score 144; DB 2; Length 739;
Best Local Similarity 20.2%; Pred. No. 0.041; Mismatches 147; Indels 100; Gaps 15;
Matches 79; Conservative 65; MisMatches 147; Indels 100; Gaps 15;
Ov 287 ALPOVAGSGIGNLTALEAKTGKLUHQENLNUVNRATQLOK---NLTCCEWGPSPKPLMLSL 342
Db 494 SEPKNQOSVQSLVNVNAP---KEFTIWVSPSPNLLTTSDFGPPAKLWSR 548
Query Match 7.1%; Score 144; DB 2; Length 739;
Best Local Similarity 20.2%; Pred. No. 0.041; Mismatches 147; Indels 100; Gaps 15;
Matches 79; Conservative 65; MisMatches 147; Indels 100; Gaps 15;
Ov 343 KLENKAKVSKREKPKWVLN--PEAGMWQC 370
Db 549 QLNLNGBLQPLSENTTLLTMMSTKRDSDGIVYC 579
A;Title: Cloning and sequencing of mouse VCAM-1 cDNA.

RESULT 14

vascular cell adhesion molecule-1 long splice form precursor - mouse

C;Species: Mus musculus (house mouse)

C;Date: 31-Dec-1993 #sequence revision 31-Dec-1993 #text_change 09-Jul-2004

C;Accession: JN0581; JS0674; R40275; A48919

R;Araki, M.; Araki, K.; Vassallo, P.

Gene 126, 261-264, 1993

A;Title: Cloning and sequencing of mouse VCAM-1 cDNA.

RESULT 15

